

1/17

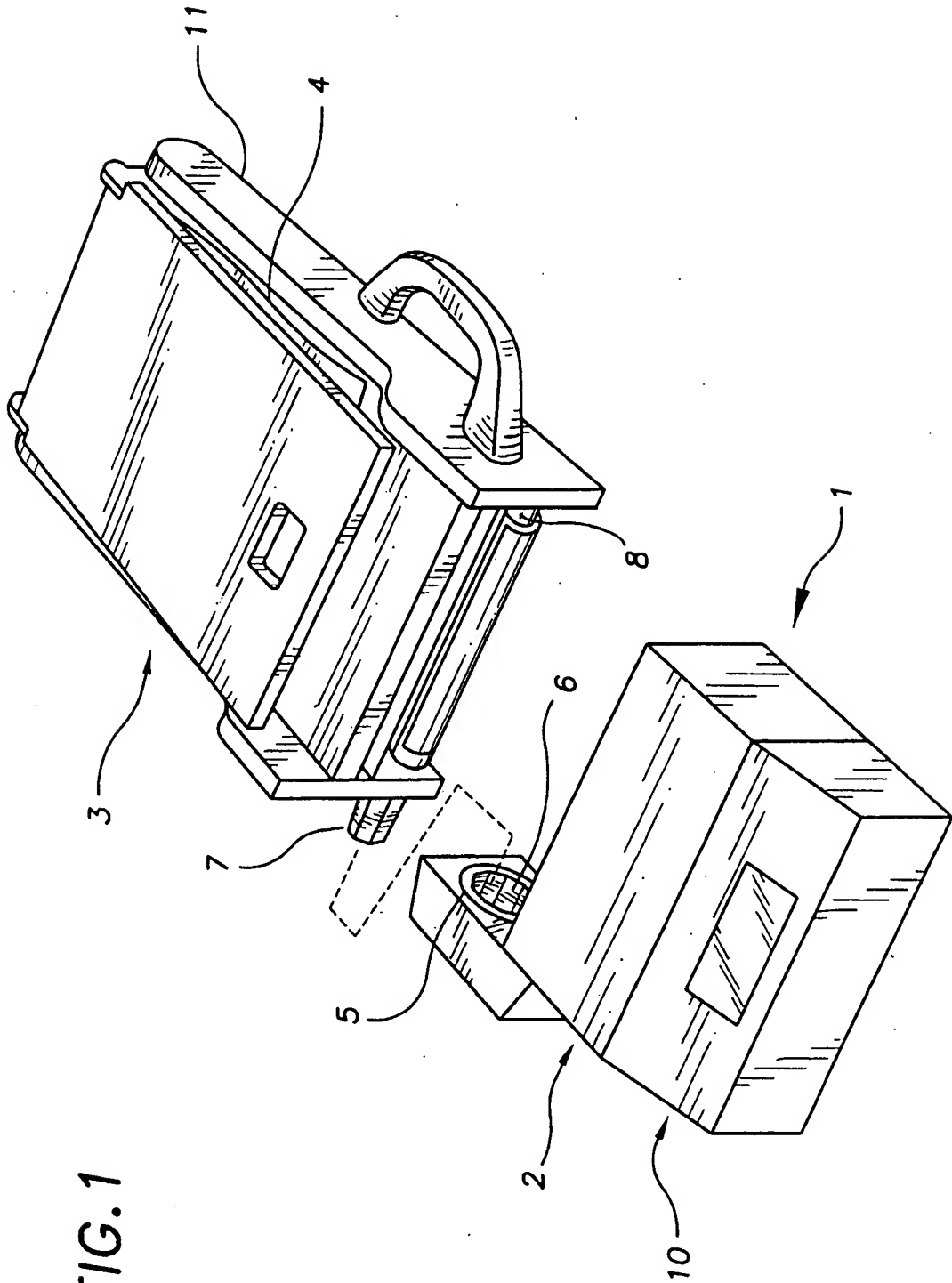
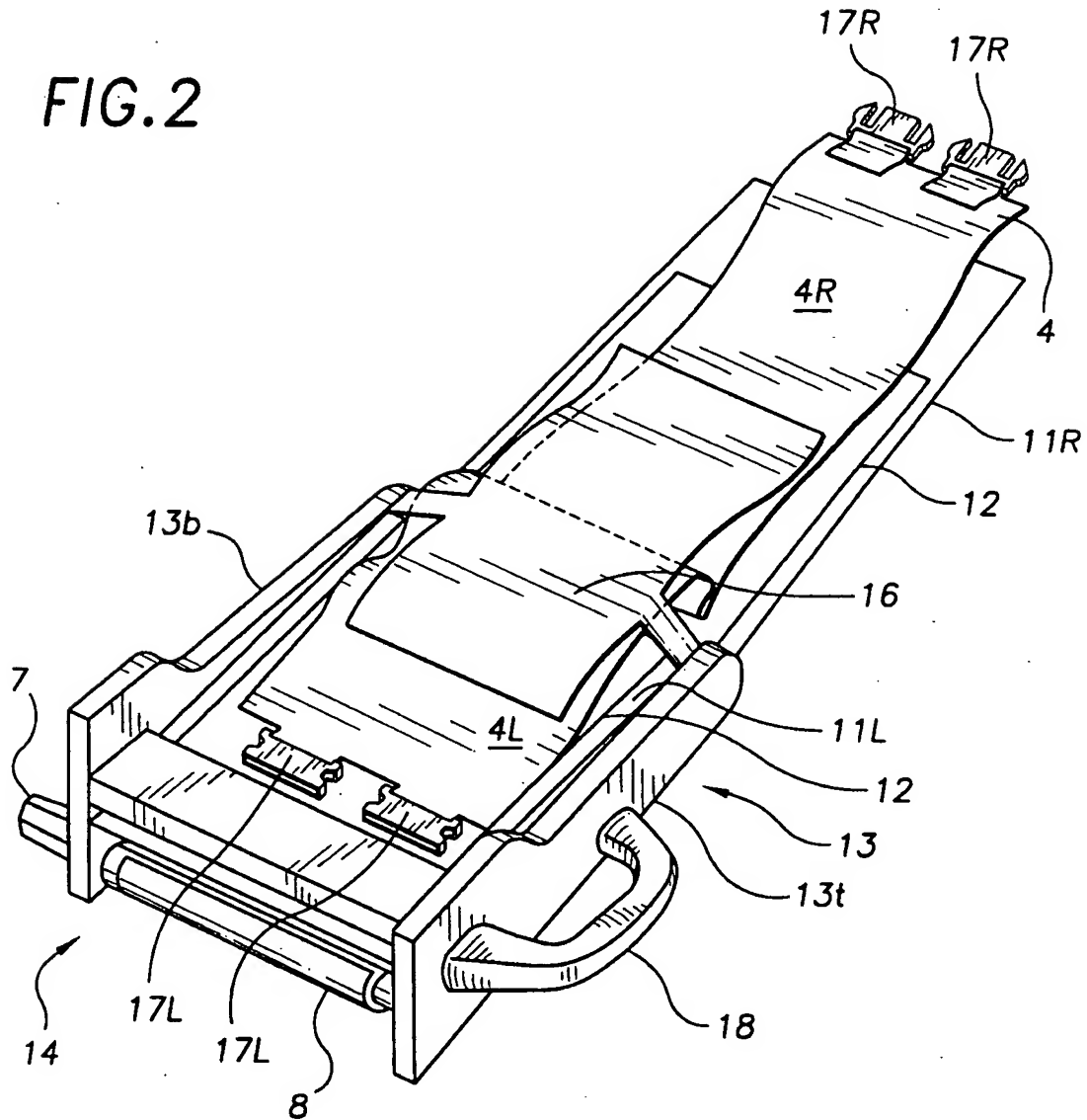


FIG. 2





4/17

FIG. 5

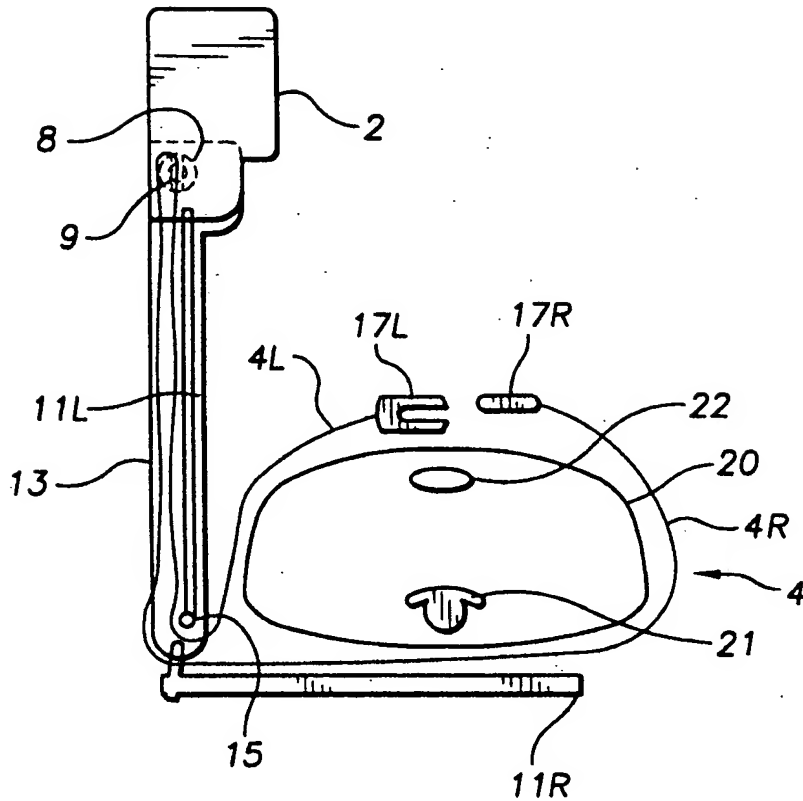
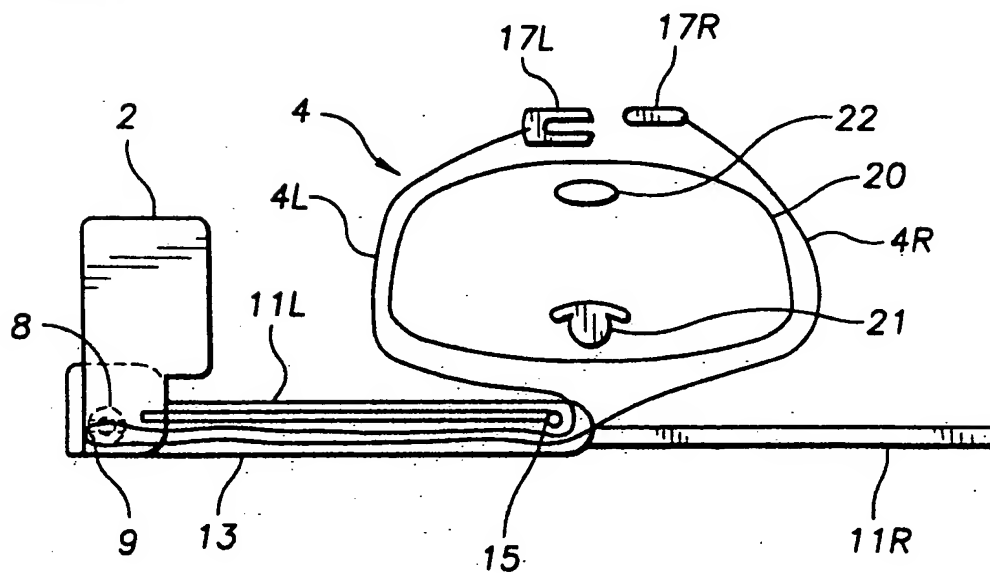


FIG. 6



5/17

FIG. 7

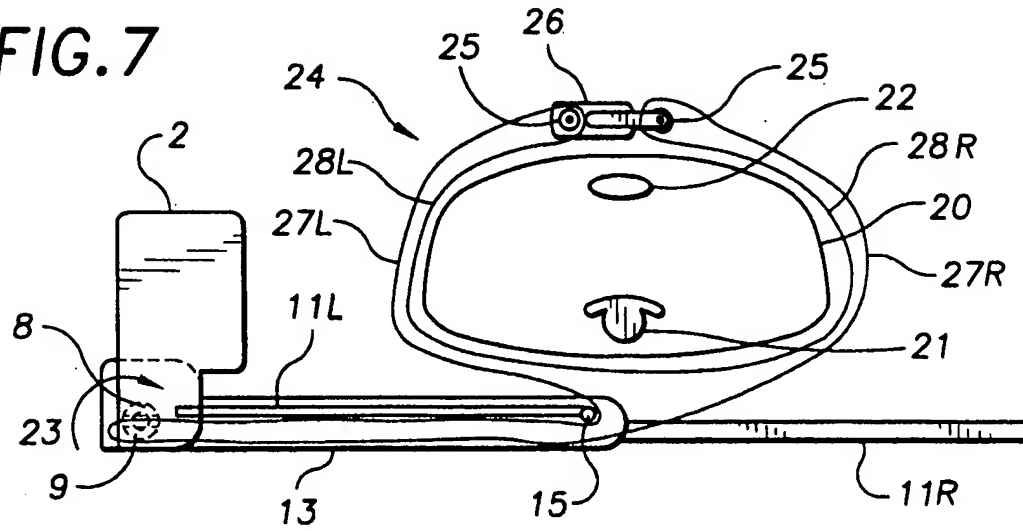


FIG. 8

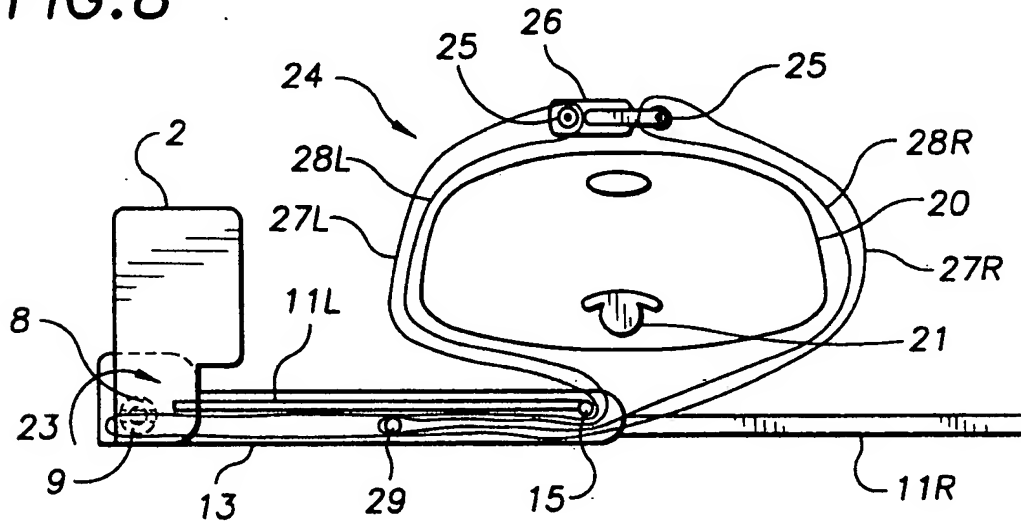
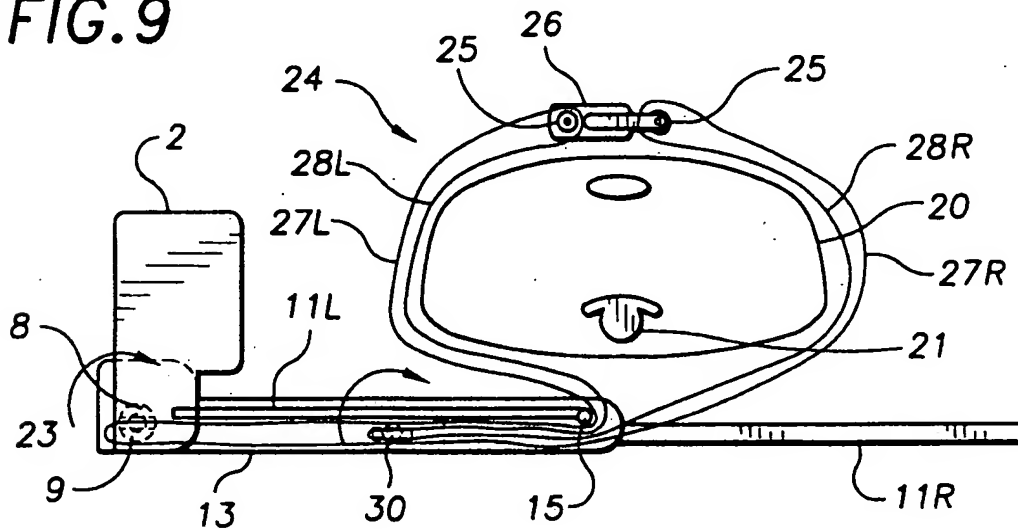
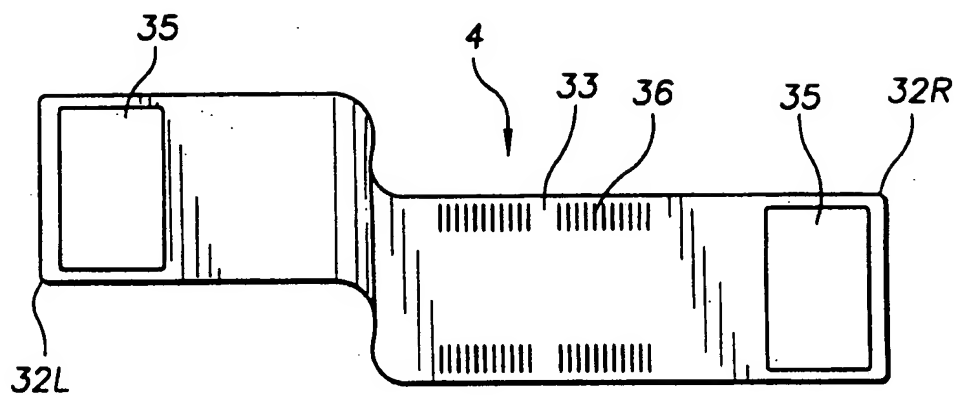


FIG. 9

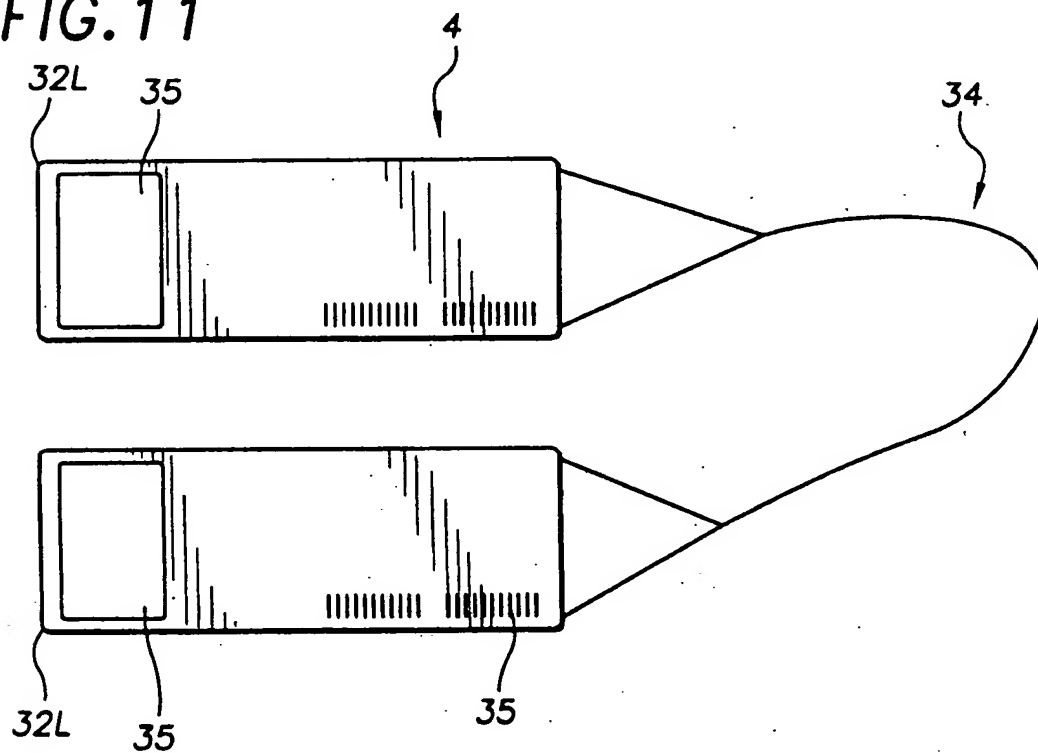


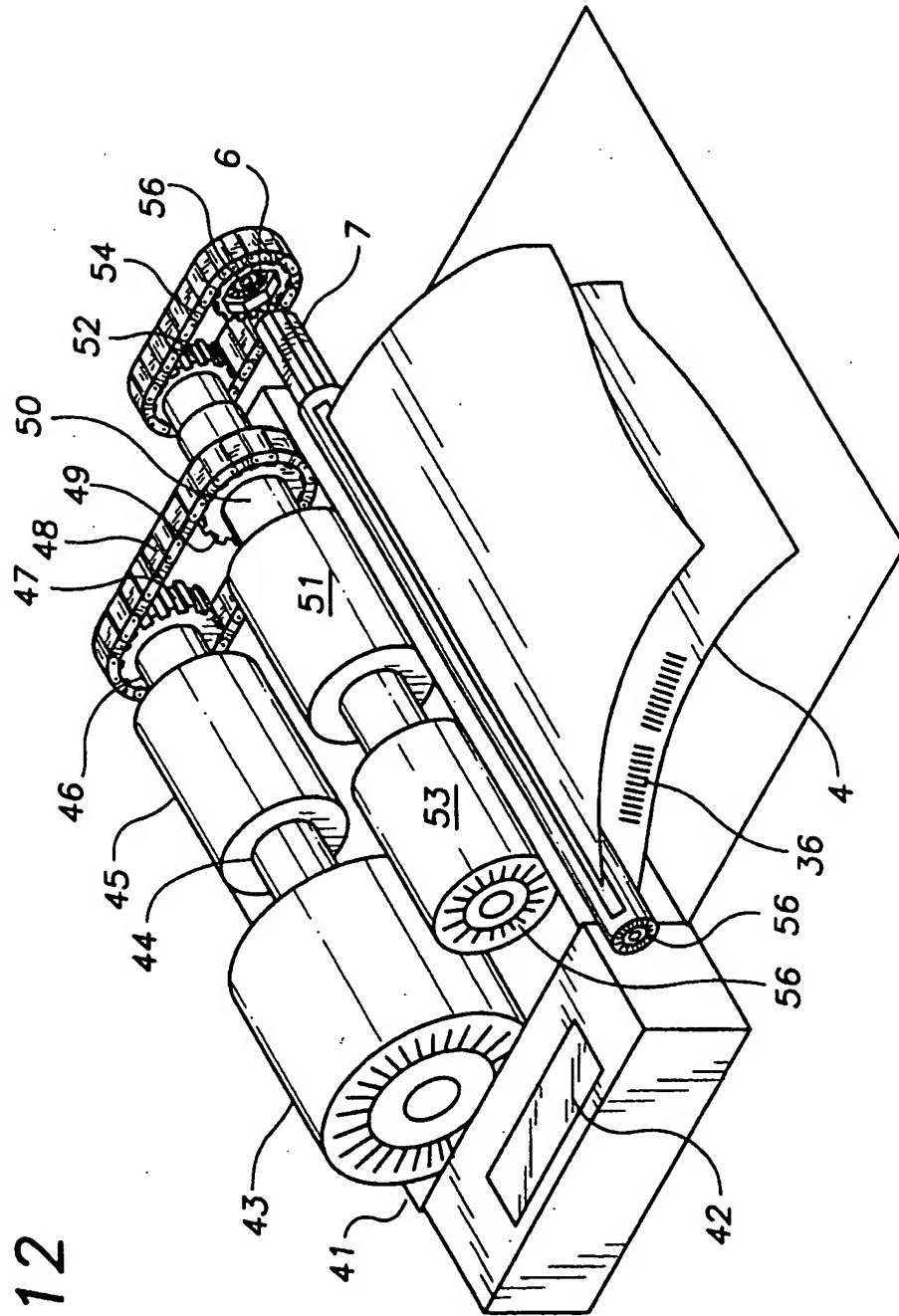
6/17

**FIG. 10**

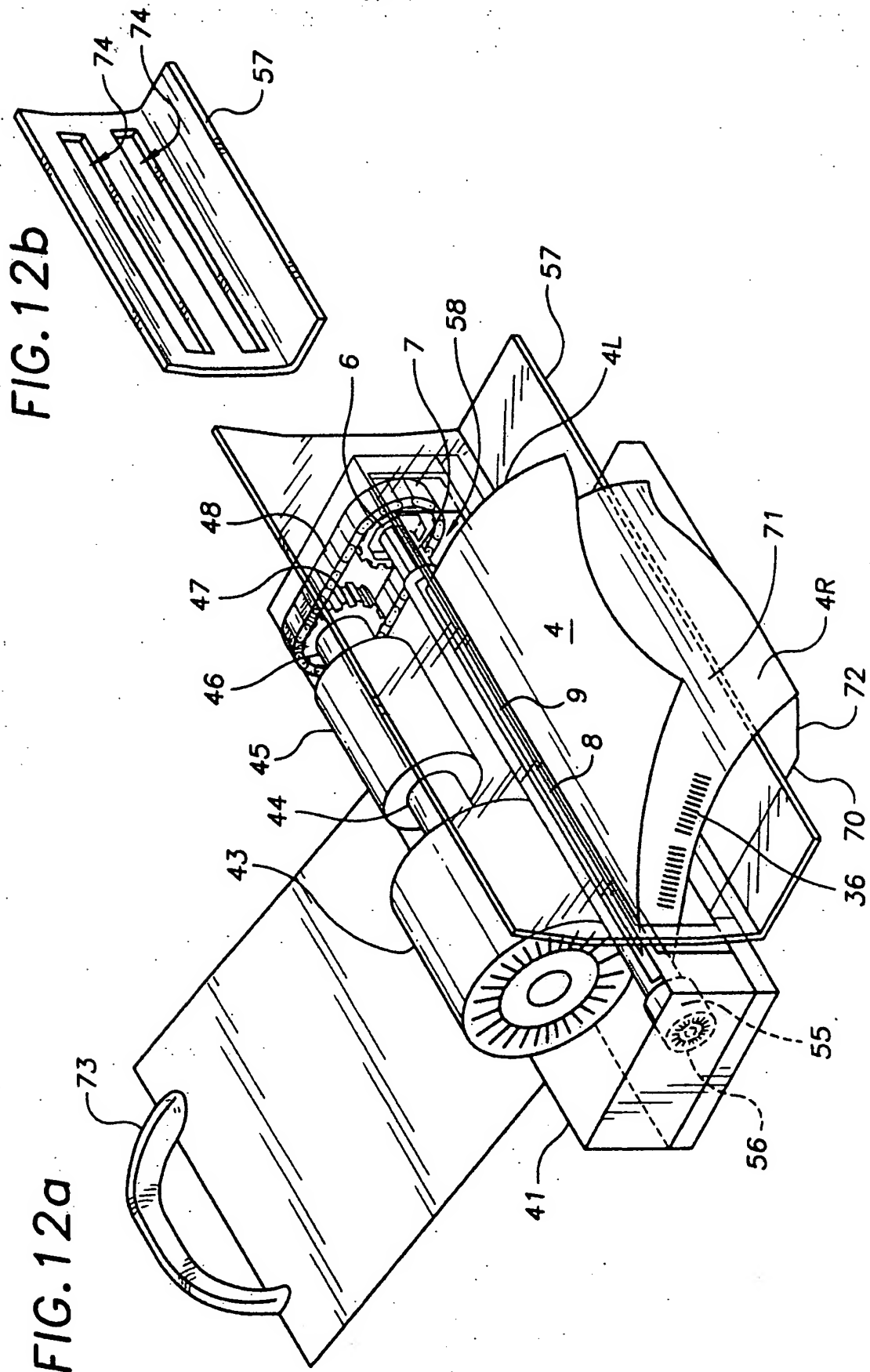


**FIG. 11**





**FIG. 12**



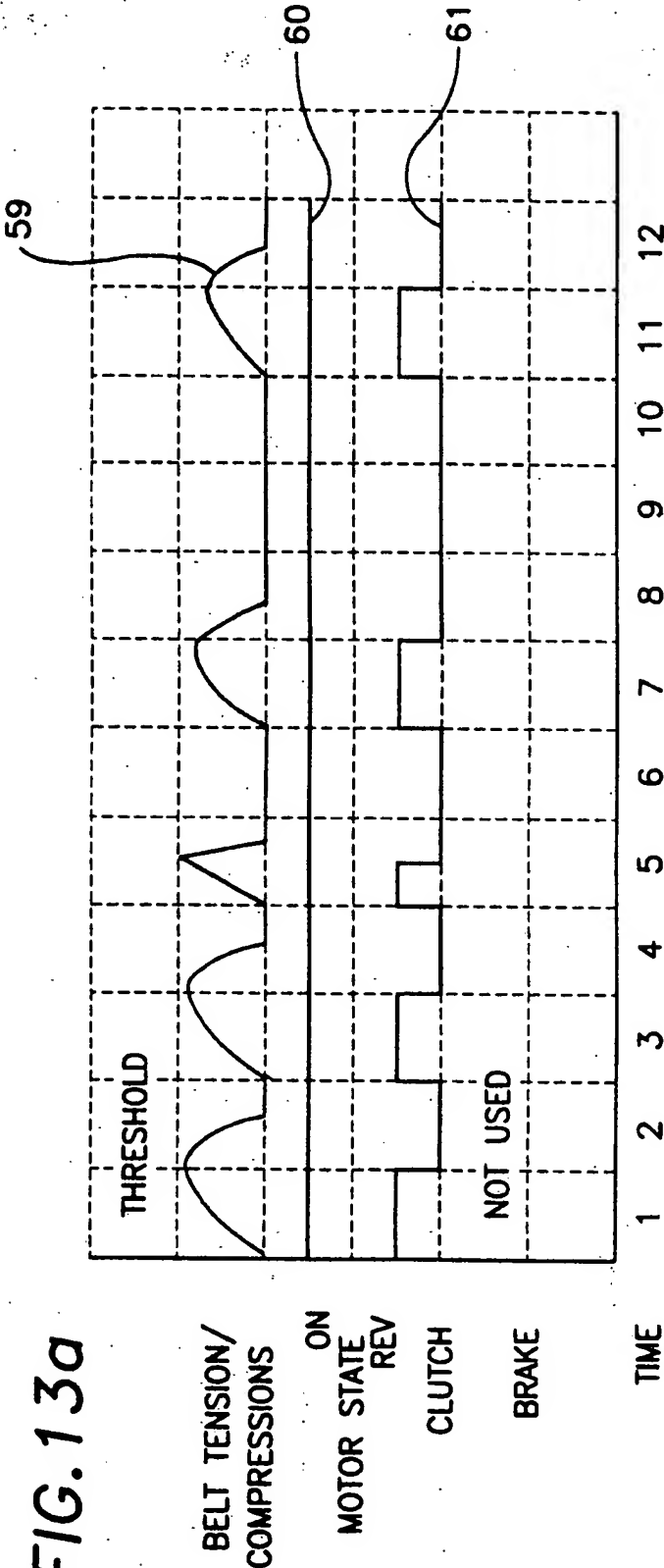


9/17

FIG. 13

TIME	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	OFF
CLUTCH	ON	OFF	ON	OFF	ON(OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF
BRAKE												

FIG. 13a

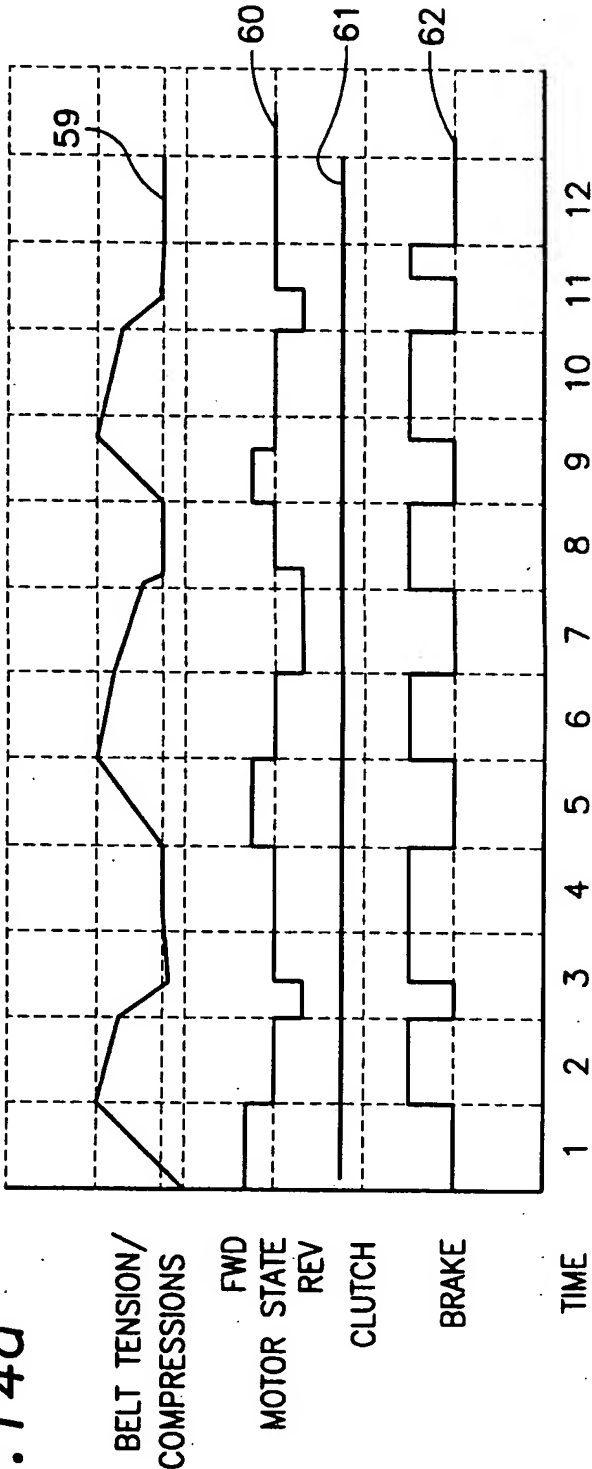


10/17

FIG. 14

	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	FWD	OFF	REV(OFF)	OFF	FWD	OFF	REV(OFF)	REV(OFF)	FWD(OFF)	OFF	REV	OFF
CAM BRAKE	OFF	ON	OFF(ON)	ON	OFF	ON	OFF(ON)	ON	OFF(ON)	ON	OFF	ON
CLUTCH	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

FIG. 14a

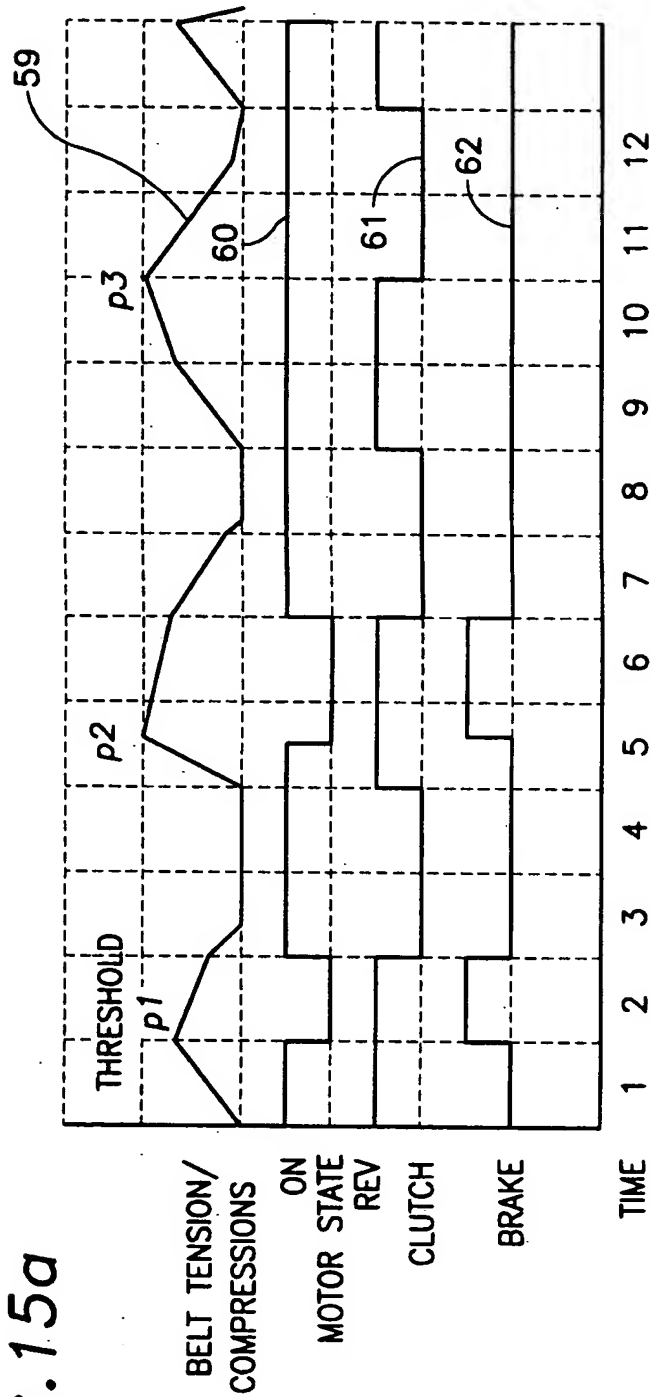


11/17

FIG. 15

TIME	1	2	3	4	5	6	7	8	9	10	11	12	13
MOTOR	ON	OFF	ON	ON	ON(OFF)	OFF	ON	ON	ON	ON	ON	ON	ON
CLUTCH	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON
BRAKE	OFF	ON	OFF	OFF	OFF(ON)	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF

FIG. 15a

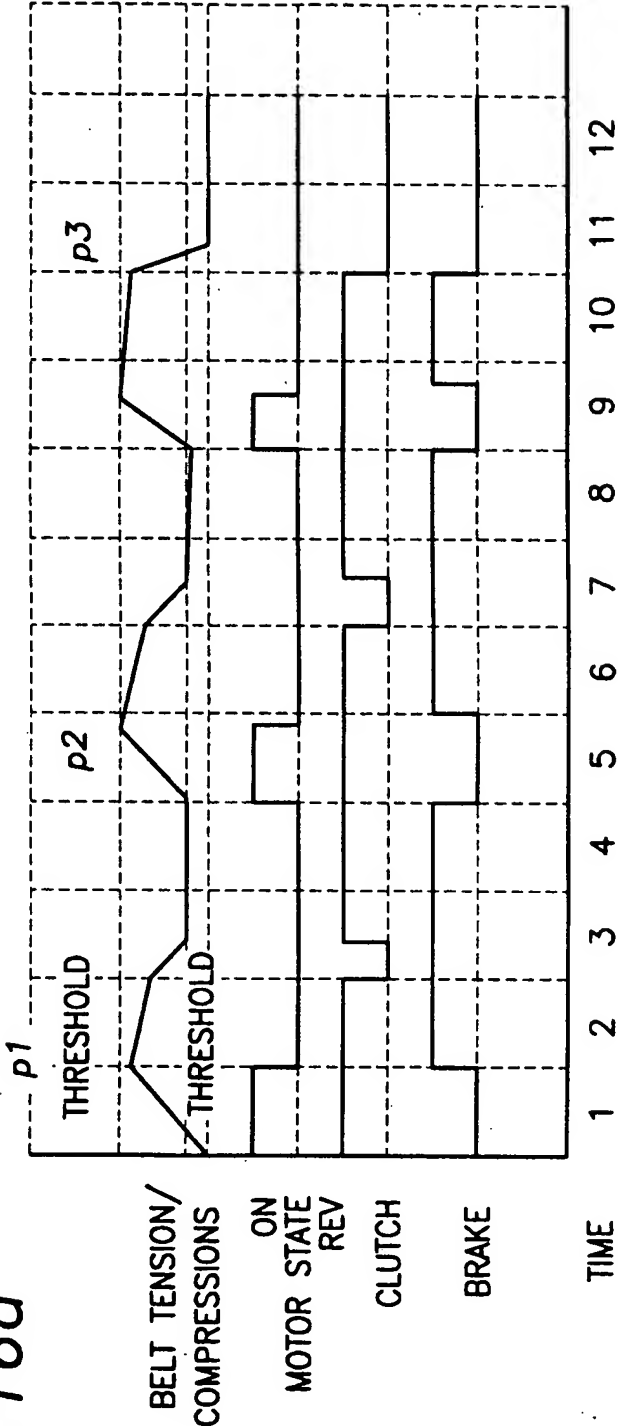


12/17

FIG.16

TIME	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	ON
CLUTCH	ON	ON	OFF(ON)	ON	ON	ON	OFF(ON)	ON	ON	ON	OFF	OFF
CAM BRAKE	OFF	ON	ON	ON	OFF	ON	ON	ON	OFF(ON)	OFF(ON)	OFF	OFF

FIG.16a



13/17

FIG. 17

TIME	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
CLUTCH	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
SPINDLE BRAKE	OFF	ON	OFF(ON)	ON	OFF	ON	OFF(ON)	ON	OFF	OFF	OFF(ON)	ON

FIG. 17a

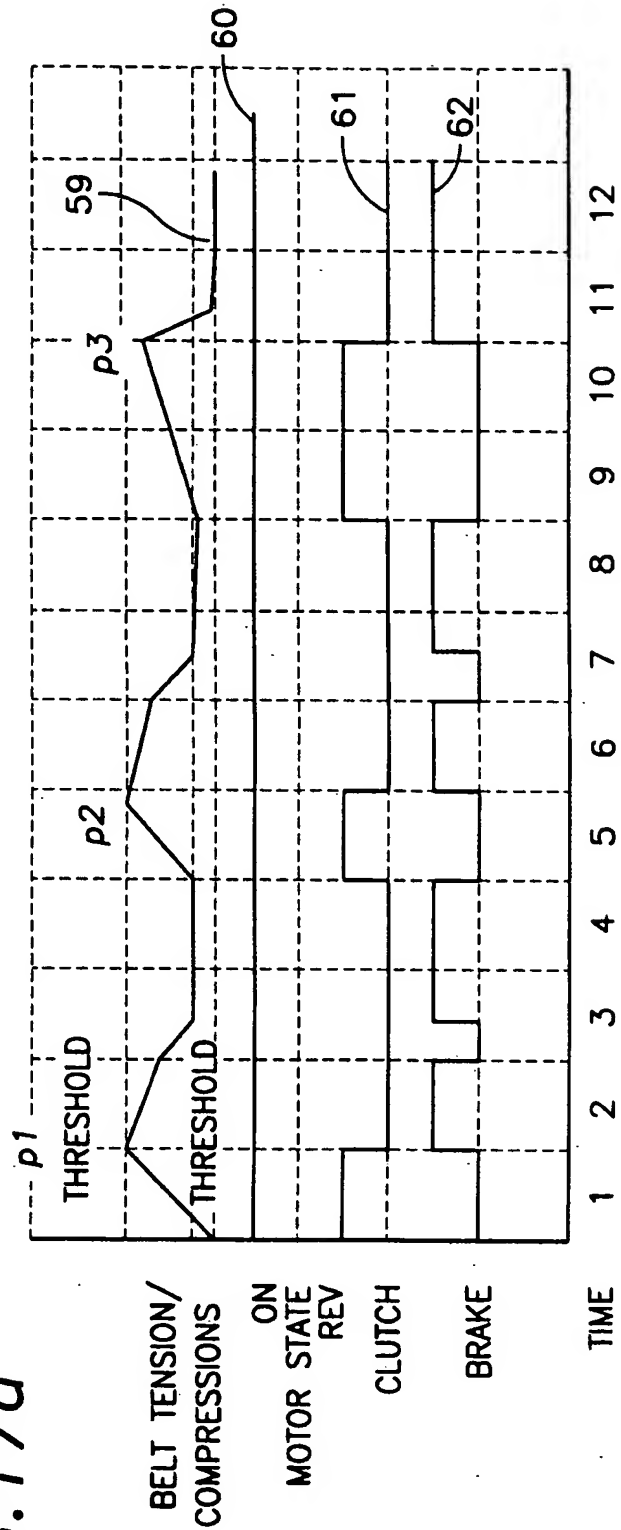


FIG.18

TIME	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
CLUTCH	ON	OFF	OFF	OFF	ON	ON(OFF)	OFF	OFF	ON	ON(OFF)	OFF	OFF
SPINDLE BRAKE	OFF	OFF	OFF(ON)	ON	OFF	OFF(ON)	OFF(ON)	ON	OFF	OFF(ON)	OFF(ON)	OFF

FIG.18a

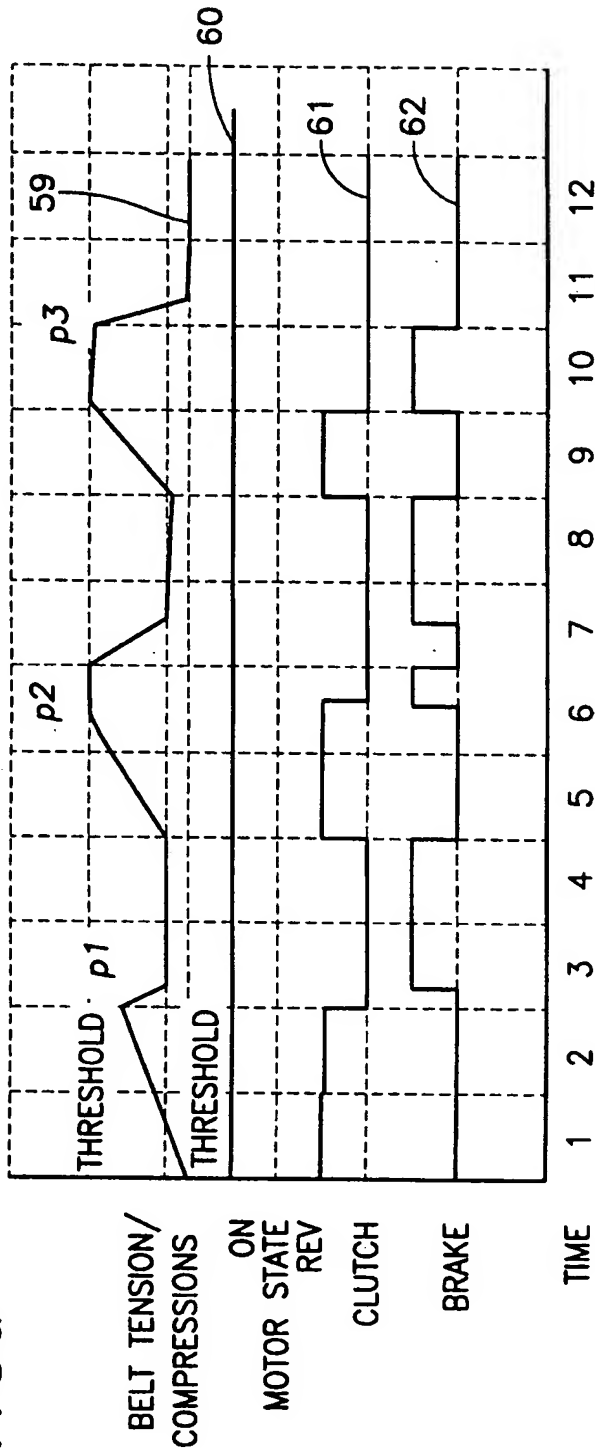
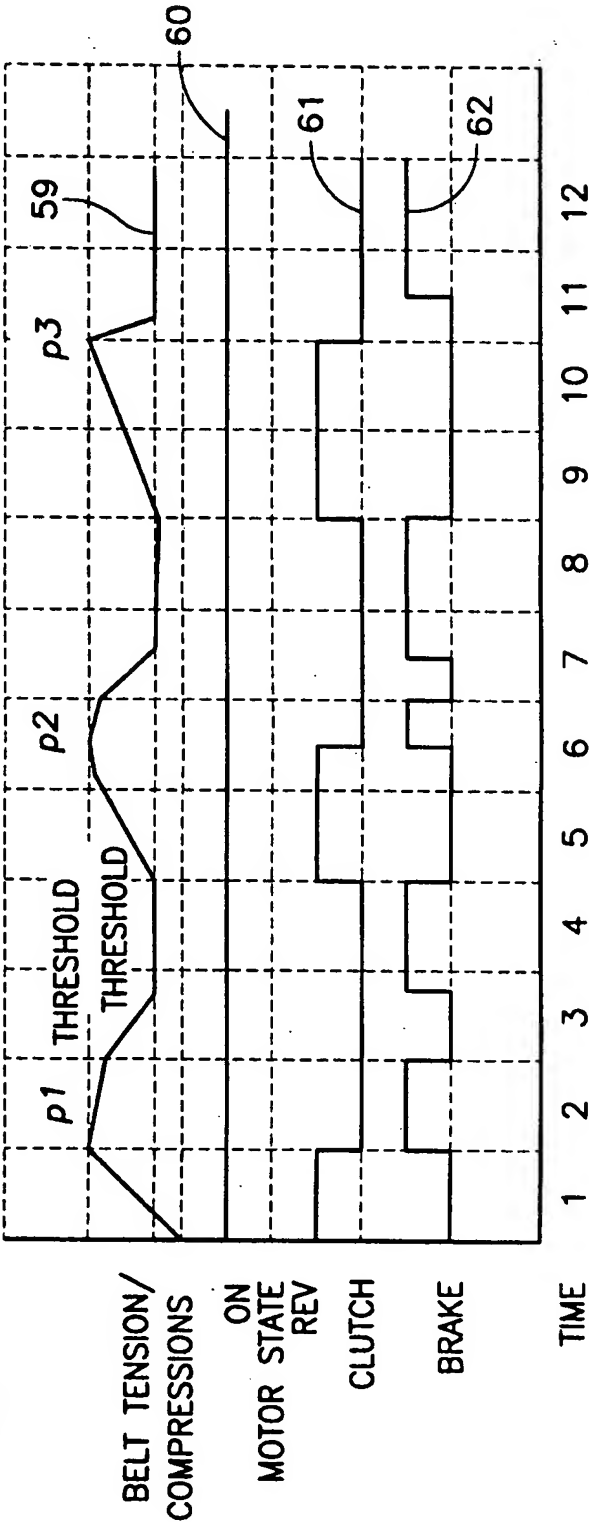


FIG.19

TIME	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
CLUTCH	ON	OFF	OFF	OFF	ON	ON(OFF)	OFF	OFF	ON	ON	OFF	OFF
BRAKE	OFF	OFF	OFF(OFF)	ON	OFF	OFF(OFF)	OFF(OFF)	ON	OFF	OFF	OFF(OFF)	ON

FIG.19a



**FIG. 20a**

TIME	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	ON	OFF	ON	ON	ON	OFF	ON	ON	ON	ON	OFF	ON
CLUTCH	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF
BRAKE	OFF	ON	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
SPINDLE BRAKE	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON

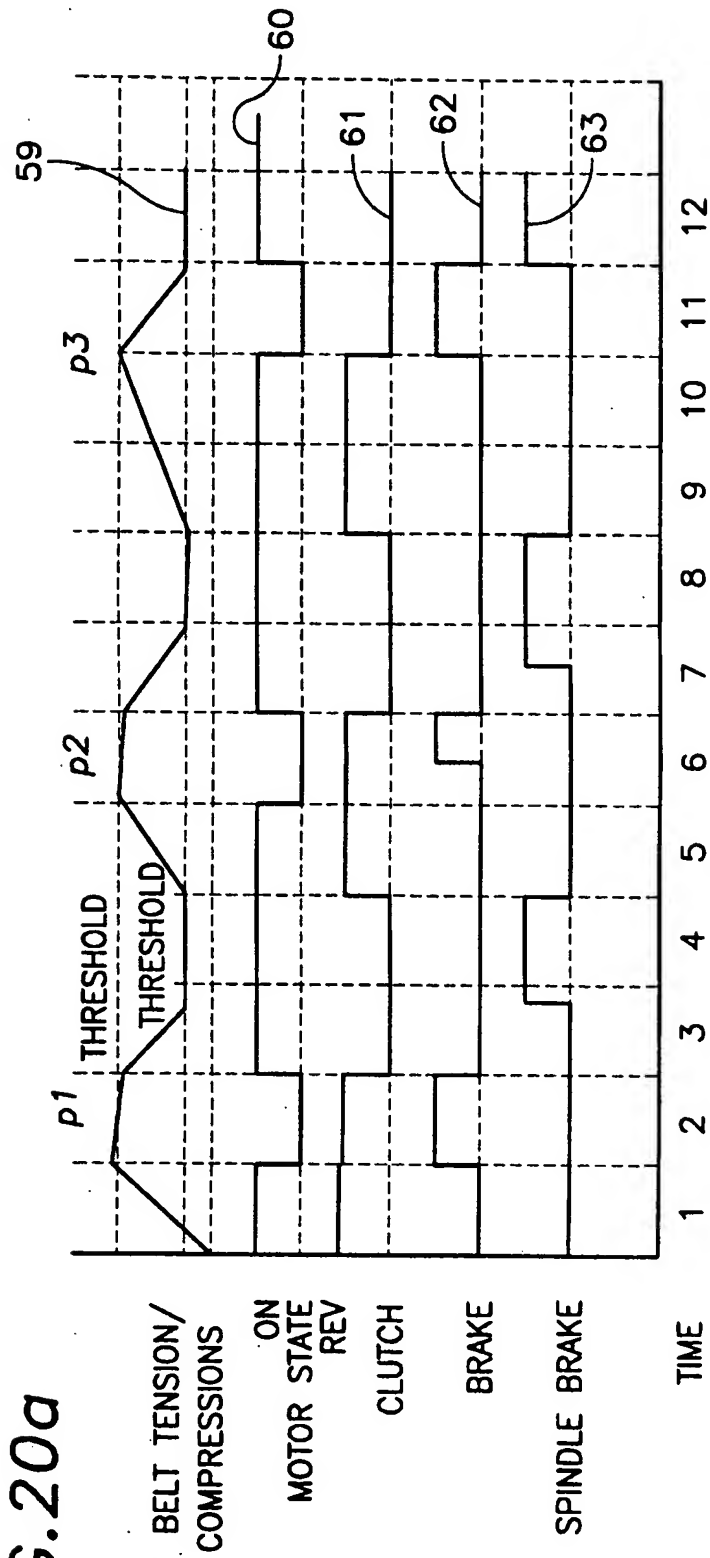




FIG.21

	1	2	3	4	5	6	7	8	9	10	11	12
MOTOR	ON	OFF	ON(OFF)	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
CAM BRAKE	OFF	ON	OFF(ON)	ON	OFF	ON	OFF(ON)	ON	OFF(ON)	ON	OFF	ON
CLUTCH	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

